

Appl. No. 09/909,233
Atty. Docket No. CM2505
Amdt. dated 12/8/2004
Reply to Office Action of 11/19/2004
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A hard-surface cleaning composition for removing cooked-, baked-, or burnt-on acidic food soil from cookware and tableware, the composition being in sprayable form and comprising an organic solvent system having a volatile organic content above 1 mm Hg of less than about 50% and an odor masking perfume or perfume base, said perfume or perfume base comprising at least about 20% by weight thereof of non-volatile perfume materials having a boiling point above 250°C at 1 atmosphere pressure; wherein said composition has a reserve alkalinity of less than about 5 in the presence of an acidic food soil; wherein the composition displays an advancing contact angle on a polymerised grease-coated glass substrate at 25°C of less than about 20° using the Wilhelmy Method.
2. (previously presented) A composition according to claim 1 wherein the perfume or perfume base comprises at least about 0.001%, by weight of an ionone or mixture of ionones.
3. (previously presented) A composition according to claim 2 wherein the ionone or mixture of ionones comprises naturally occurring ionone materials such as mimosa, violet, iris, orris and mixtures thereof.
4. (previously presented) A composition according to claim 1 wherein the perfume or perfume base additionally comprises a musk having a boiling point of more than about 250°C.
5. (previously presented) A composition according to any of claim 1 wherein the perfume or perfume base additionally comprises a high volatile perfume component or mixture of components having a boiling point of less than about 250°C.

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6. (previously presented) A composition according to claim 1 further comprising a blooming perfume composition, said blooming perfume composition comprising:

- a) at least 7.5% by weight thereof of one or more first perfume ingredients having boiling point of 250°C or less and ClogP of 3.0 or less; and
- b) at least 20% by weight thereof of one or more second perfume ingredients having boiling point of 250°C or less and Clog P of greater than 3.0,

wherein at least one individual first or second perfume ingredient is present in an amount of at least 7% by weight of the blooming perfume composition.

7. (previously presented) A composition according to claim 6 wherein the weight ratio of the odor masking perfume or perfume base to the blooming perfume is from about 10:1 to about 1:10.

8. (currently amended) A hard-surface cleaning composition for removing cooked-, baked-, or burnt-on acidic food soil from cookware and tableware, the composition comprising an organic solvent system and an odor-masking blooming perfume composition comprising:

- a) at least 5% by weight thereof of one or more first perfume ingredients having boiling point of 250°C or less and ClogP of 3.0 or less;
- b) at least 40% by weight thereof of one or more second perfume ingredients having boiling point of 250°C or less and Clog P greater than 3.0; and
- c) at least about 15% by weight thereof of non-volatile perfume materials having a boiling point above 250°C at 1 atmosphere pressure, and which preferably comprises an ionone or a mixture of ionones and/or a musk or mixture of musks;

wherein at least one individual first or second perfume ingredient is present in an amount of at least 4% by weight of the odor-masking blooming perfume composition; wherein said composition has a reserve alkalinity of less than about 5 in the presence of an acidic food soil; wherein the composition displays an advancing contact angle on a polymerised grease-coated glass substrate at 25°C of less than about 20° using the Wilhelmy Method.

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9. (previously presented) A composition according to claim 1 additionally comprising a cyclodextrin malodor-control agent.

10. (previously presented) A composition according to claim 1 wherein the solvent includes at least one solvent component acting as soil swelling agent and wherein the composition has a pH of at least about 10.5.

11. (canceled)

12. (previously presented) A composition according to claim 1 wherein the composition comprises from about 0.05 to about 10% of surfactant selected from the group consisting of anionic surfactants, amphoteric surfactants, zwitterionic surfactants, non-ionic surfactants, semi-polar surfactants, and mixtures thereof.

13. (canceled)

14. (previously presented) A composition according to claim 1 wherein the composition has a soil swelling index of at least about 100%.

15. (previously presented) A composition according to claim 1 comprising a spreading auxiliary selected from the group consisting of organic solvents, wetting agents, and mixtures thereof.

16. (previously presented) A composition according to claim 15 wherein the spreading auxiliary has a liquid surface tension of less than about 30 mN/m.

17. (previously presented) A composition according to claim 15 wherein the spreading auxiliary comprises one or more organic solvent components selected from the group consisting of alcoholic solvents, glycols, glycol derivatives, and mixtures thereof.

18. (previously presented) A composition according to claim 15 wherein the spreading auxiliary comprises a mixture of a fully water-miscible organic solvent and a coupling

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organic solvent having limited miscibility in water and wherein the ratio of water-miscible organic solvent to coupling organic solvent is from about 4:1 to about 1:20.

19. (previously presented) A composition according to claim 15 wherein the spreading auxiliary comprises a wetting agent having a liquid surface tension of less than about 30 mN/m.

20. (previously presented) A composition according to claim 15 wherein the spreading auxiliary comprises an amine oxide wetting agent.

21. (previously presented) A composition according to claim 1 comprising a soil swelling agent, wherein the soil swelling agent is an organoamine solvent selected from the group consisting of alkanolamines, alkylamines, alkyleneamines, and mixtures thereof.

22. (previously presented) A composition according to claim 1 wherein the composition has a polymerised grease removal index of at least 25%.

23. (previously presented) A composition according to claim 1 wherein the composition comprises an organic solvent system selected from the group consisting of alcohols, amines, esters, glycol ethers, glycols, terpenes, and mixtures thereof, including at least one organoamine solvent component.

24. (previously presented) A composition according to claim 23 wherein the organic solvent system is selected from the group consisting of organoamine solvents, inclusive of alkanolamines, alkylamines, alkyleneamines and mixtures thereof; alcoholic solvents inclusive of aromatic, aliphatic (preferably C₄-C₁₀), cycloaliphatic alcohols and mixtures thereof; glycols and glycol derivatives inclusive of C₂-C₃ (poly)alkylene glycols, glycol ethers, glycol esters, and mixtures thereof; and mixtures selected from organoamine solvents, alcoholic solvents, glycols, and glycol derivatives.

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25. (previously presented) A composition according to claim 23 wherein the organic solvent comprises organoamine (especially alkanolamine, more especially 2-aminoalkanol) solvent and glycol ether solvent; wherein the glycol ether solvent is selected from the group consisting of ethylene glycol monobutyl ether, diethylene glycol monobutyl ether, ethylene glycol monomethyl ether, ethylene glycol monoethyl ether, diethylene glycol monomethyl ether, diethylene glycol monoethyl ether, propylene glycol monobutyl ether, dipropylene glycol monobutyl ether, ethylene glycol phenyl ether, and mixtures thereof.

26. (previously presented) A composition according to claim 23 wherein the glycol ether is a mixture of diethylene glycol monobutyl ether and propylene glycol butyl ether.

27. (previously presented) A composition according to claim 23 wherein the organic solvent has a volatile organic content above 1 mm Hg of less than about 50%.

28. (previously presented) A composition according to claim 23 wherein the organic solvent is essentially free of solvent components having a boiling point below about 150°C, flash point below about 50°C, or vapor pressure above about 1 mm Hg.

29. (previously presented) A composition according to claim 1 in the form of a dishwashing pretreatment composition.

30. (previously presented) A composition according to claim 1 additionally comprising a salt having a divalent cation.

31. (previously presented) A composition according to claim 1 additionally comprising a thickening system comprising synthetic smectite type clay thickening agent having an average platelet size of less than about 100 nm.

32. (previously presented) A composition according to claim 31 wherein the thickening system comprises a mixture of a synthetic smectite type clay thickening agent having an average platelet size of less than about 100 nm and a natural gum.

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33. (previously presented) A composition according to claim 1 wherein the composition sprayed on a vertical stainless steel surface has a flow velocity less than about 1 cm/s.
34. (previously presented) A composition according to claim 1 having shear thinning properties.
35. (previously presented) A composition according to claim 1 having a viscosity greater than about 1 Pa s at 6 rpm, lower than about 2 Pa s at 30 rpm, and lower than about 1 Pa s at 60 rpm, measured with a Brookfield cylinder viscometer (model LVDII) using 10 ml sample, a spindle S-31.
36. (withdrawn) A method of removing cooked-, baked- or burnt-on soils from cookware and tableware comprising treating the cookware/tableware with a hard surface cleaning composition according to claim 1.
37. (withdrawn) A method of removing cooked-, baked- or burnt-on polymerised grease soils from metallic cookware and tableware comprising treating the cookware/tableware with a hard surface cleaning composition according to claim 1.
38. (withdrawn) A method of removing cooked-, baked- or burnt-on carbohydrate soils from metallic cookware and tableware comprising treating the cookware/tableware with a hard surface cleaning composition according to claim 1.
39. (withdrawn) A method according to claim 36 comprising the step of pre-treating the cookware/tableware with the hard surface cleaning composition prior to manual or automatic dishwashing.
40. (withdrawn) A method according to claim 36 comprising the step of pre-treating the cookware/tableware with the hard surface cleaning composition and covering the pre-treated cookware/tableware with cling film for a time sufficient to promote swelling of the soil prior to manual or automatic dishwashing.

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41. (previously presented) A hard surface cleaning product comprising the hard surface cleaning composition of claim 1 and a spray dispenser therefor.

42. (previously presented) A hard surface cleaning product according to claim 41 wherein the spray dispenser produces spray droplets having an average equivalent geometric diameter from about 3 μm to about 10 μm as measured using a TSI Aerosizer.

43. (currently amended) An odor masking perfume or perfume base suitable for use in a hard surface cleaning composition for removing cooked-, baked-, or burnt-on acidic food soil from cookware and tableware, wherein the perfume or perfume base comprises at least 0.001% by weight of an ionone or mixture of ionones, and wherein the ionone or mixture of ionones comprises naturally-occurring ionone materials; and wherein said cleaning composition comprises a reserve alkalinity of less than about 5 in the presence of an acidic food soil; wherein the composition displays an advancing contact angle on a polymerised grease-coated glass substrate at 25°C of less than about 20° using the Wilhelmy Method.

44. (currently amended) ~~A perfume composition for use in a hard surface cleaning composition,~~ to provide odor-masking blooming characteristics for use in a hard surface cleaning composition for removing cooked-, baked-, or burnt-on acidic food soil from cookware and tableware, the perfume composition comprising:

- a) at least 5% by weight thereof of one or more first perfume ingredients having boiling point of 250°C or less and ClogP of 3.0 or less;
- b) at least 40% by weight thereof of one or more second perfume ingredients having boiling point of 250°C or less and Clog P of greater than 3.0; and
- c) at least about 15% by weight thereof of non-volatile perfume materials having a boiling point above 250°C at 1 atmosphere pressure

wherein at least one individual first or second perfume ingredient is present in an amount of at least 4% by weight of the perfume composition, wherein said cleaning composition comprises a reserve alkalinity of less than about 5 in the presence of an acidic food soil;

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wherein the composition displays an advancing contact angle on a polymerised grease-coated glass substrate at 25°C of less than about 20° using the Wilhelmy Method.

Respectfully submitted,

THE PROCTER & GAMBLE COMPANY

By


Signature

Kevin L. Waugh

Typed or Printed Name

Registration No. 47,206

(513) 627-7386

Date: December 8, 2004

Customer No. 27752

(CM2505 Amendment-Response to Notice of Non Compliance.doc)
Revised 10/13/2004